

THE PERFORMANCE REVOLUTION IS ABOUT TO BEGIN



Radius Rockets and RocketShare.

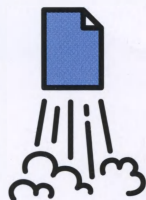


WE MAKE ORDINARY COMPUTERS DO EXTRAORDINARY THINGS

radius™

Rockets.

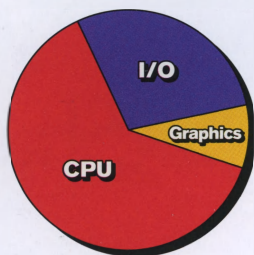
The Fast Solution to System Bottlenecks.



If you're interested in getting more performance out of your Macintosh, you've probably taken a look at more than one type of accelerator card.

Accelerated video cards speed up QuickDraw routines only. Things happen on your screen faster, but real system performance gains are negligible because they happen at the CPU, not at the QuickDraw level. Cache cards slightly increase the speed of your system, but eventually you'll run into a brick wall.

When deciding on an accelerator for your Macintosh, consider this. On average, 65% of your computer's time is spent performing complex calculations and processing data. Graphics manipulations account for a mere 5%.



Relative Time Spent on Macintosh System Functions

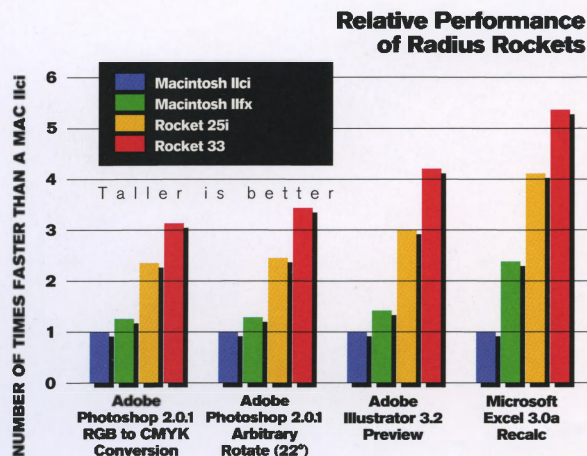
and the way you work with your Macintosh.

Radius Rockets are powered by their own onboard CPU. A Motorola 68040. The fastest microprocessor that runs the newest generation of Macintosh Quadras.

And unlike video cards that only accelerate QuickDraw graphics commands, Radius Rockets accelerate all the system functions of your Macintosh. Including QuickDraw.

The other huge performance bottleneck is the input and output performance of your SCSI devices.

The only escape from these bottlenecks is with Radius Rockets, RocketShare and our SCSI-2 and DSP Boosters. Revolutionary hardware and software technologies that will change the way your Macintosh works –



In fact, Radius Rockets take over all the compute-intensive commands leaving your Macintosh processor free to handle the input/output functions. Which means the real time-consuming tasks like heavy number crunching, 3-D rendering and Photoshop filters are all done at warp '040 speed.

There are two different Rockets to choose from.

The Rocket 25i is a 25MHz LC68040 speed demon that increases the performance of a Macintosh II by up to six times. Giving you an affordable way to accelerate all of your general business applications.



The Rocket 33 is a step up and out into a whole new sphere of performance.



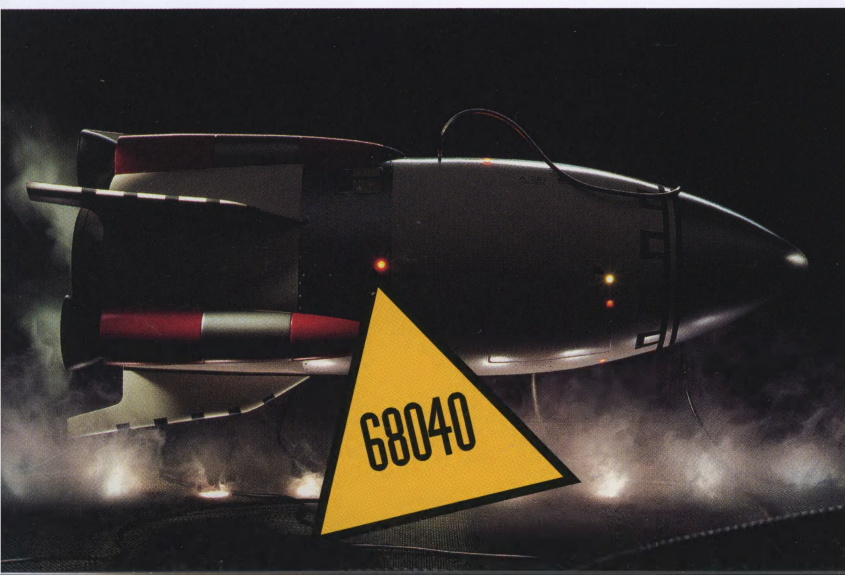
Increasing the performance of a Macintosh II up to eight times.

Powered by an '040 racing along at 33MHz, the Rocket 33 gives your Macintosh the additional boost of a floating-point coprocessor. Enabling it to deliver a sense of instant gratification to even the most demanding Microsoft Excel, Adobe Photoshop and Strata RenderPro maniacs.

Rockets are compatible with the Macintosh Quadra and the Macintosh II computer families. And they come bundled with their own RocketWare software ensuring compatibility with your Macintosh.

Radius Rockets.

In simple terms, they make your Mac II fly like a Quadra. And if you already have a Macintosh Quadra, Radius Rockets can put you in the only true multiple processing environment available on any personal computer.



RocketShare.

For People Who Don't Want to Wait Anymore.



If you're frustrated with the "hurry up and wait" syndrome known by many who use computers, then wait no more. Because with RocketShare, you'll never have to wait to complete one job before starting another.

RocketShare lets you retouch the front cover photo of a magazine while printing out the personal columns in the back. Polish the fine print of a new sales proposal while crunching the final financial projections in the background. Rotate an image while you fill in a new invoice documenting the unforeseen client changes.

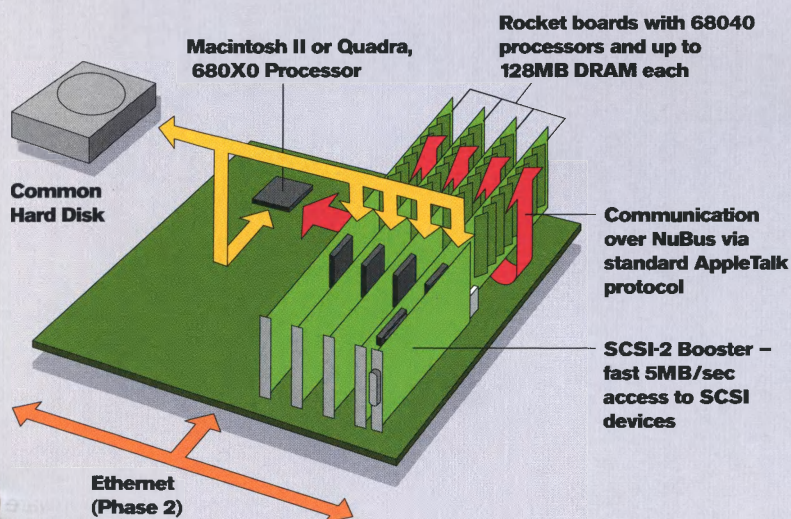
You can do it all. All at once. With RocketShare. Revolutionary software technology that delivers the power of true multiple processing to the Macintosh.

RocketShare is a software extension for System 7 users that transforms a Radius Rocket in a Macintosh II or Quadra system into an independent computer.

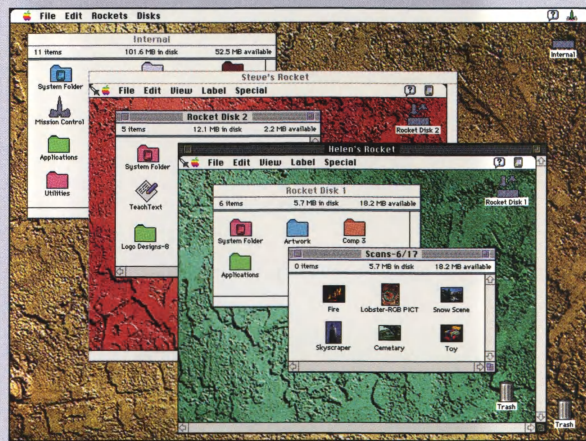
It's like having two Macs in one. Or even more if you like. Because you can install up to four Rockets in one Macintosh, letting you do up to five jobs at one time.

The only limitation is the number of NuBus slots in your Macintosh, the capacity of your Macintosh power supply, and the amount of free hard disk space you have.

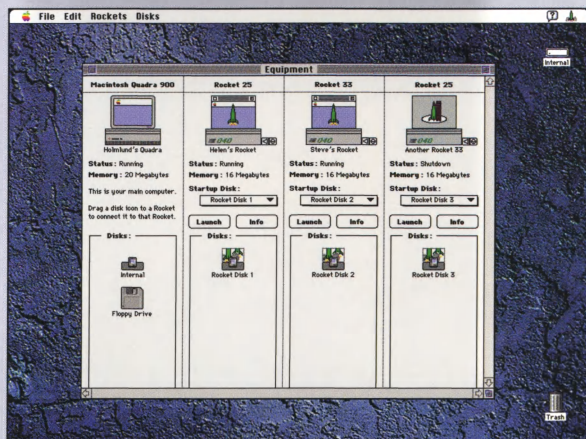
RocketShare allows you to run any existing Macintosh software without modification. Because each Rocket is its own Macintosh running its own copy of System 7.



RocketShare™ allows the use of up to 4 Rockets installed in a NuBus Macintosh, giving users the processing power of an additional 4 Quadras at a fraction of the cost.



With RocketShare, each Rocket in your computer shows up as a window on your screen and looks exactly like your Macintosh desktop from the menu bar down. You can create a Mac within a Mac by naming each Rocket and setting it up with its own memory and hard disk space.



As a result, any job that ties up your Macintosh for more than a few minutes can be off-loaded to a Rocket for processing in the background while you work with another application in the foreground.

And in addition to its foreground/background capabilities, RocketShare provides AppleShare network services to every Rocket in your Macintosh.

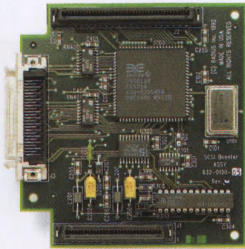
Which means your Rockets can take full advantage of Apple Events, Publish and Subscribe and other System 7 interapplication features. Just as if they were independent Macs on the network.

It's the only true multiple processing solution available for the Macintosh. Or for any other personal computer for that matter.

And it just keeps getting better.

SCSI-2 and DSP Boosters.

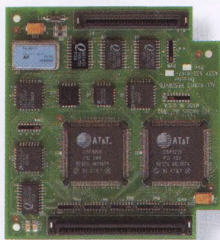
Rocket Daughtercards for Results In a Flash.



With a Radius SCSI-2 Booster daughtercard attached to a Rocket, you can connect a dedicated device like a scanner or printer. So while you're working in Photoshop on your Macintosh, your Rocket can be scanning in a library of new images. Or printing your color presentation.

SCSI-2 Booster connects directly onto the Rocket and transfers five megabytes of data per second. Compare that to the one megabyte per second data transfer of a Mac II. In addition to connecting scanners or printers, you can connect a dedicated disk drive and see unmatched disk writing performance.

Not only is it fast, you never see it. Because it all happens in the background, while you work on your Mac uninterrupted.

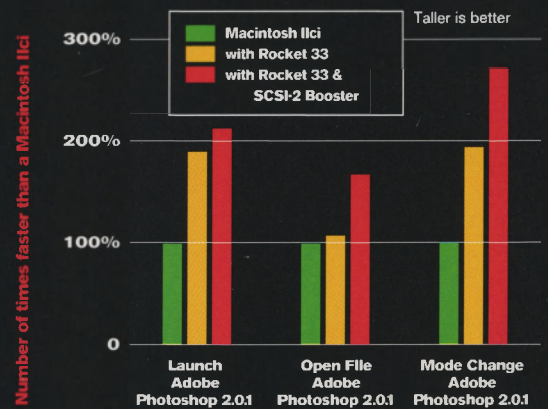


Our DSP Booster* also connects directly onto the Rocket and gives the ultimate in processing performance for Photoshop filters, rotations, color mode conversions and resizes. Filters that usually take minutes now take seconds. And with

multiple Rockets and DSP Boosters, filters transparently get distributed, reducing time even more.

So don't come to a complete standstill waiting for one job to finish. Simultaneously work on a new one. With your Macintosh, RocketShare and as many Rockets, SCSI-2 and DSP Boosters as you need.

Relative Performance of Radius SCSI-2 Booster



Based on a 20 MB file working with 28 MB Application Memory

*DSP Booster available in the first quarter of 1993.

For All You Do With Your Macintosh...

Scanning. Printing. RIPing. Photoshop filtering. All of these time intensive tasks can now be done in the background. While you do something else.

Of course, Rockets and RocketShare aren't reserved exclusively for people working with 24-bit color.

Software developers, database managers and 3D renderers can get all of their applications to take off with RocketShare.

Programs like BackBurner, DreamNet and RenderPro are ideal applications for RocketShare because they split time-consuming renderings into smaller pieces and distribute them to different Rockets for parallel processing – inside just one Mac.

For developers, Apple's latest version of MPW

includes ToolServer, a utility that lets you compile source code on a Rocket while simultaneously writing technical documentation, sending electronic mail or working on other projects.

In fact, any program designed to harness the parallel processing power of a network of Macintoshes gets to harness that same kind of power with RocketShare and Radius Rockets in a Macintosh Quadra.

Whether it's a mammoth corporate database, a new wire-frame design or the soon-to-be beta software program, Radius Rockets and RocketShare let you work faster and more efficiently.

Which all supports your overall goal of adding to the bottom line.

Specifications



Rocket Cards



Hardware

Processor: Motorola MC68LC040
 Processor clock speed: 25MHz
 Processor performance: 22 MIPS
 Floating-point performance: n/a
 Processor caches: 4KB data; 4KB instruction
 Memory slots: 2 banks with 4 SIMM slots each
 Expansion connector: One Processor Direct Slot
 NuBus data transfer rates: Up to 20MB/sec with block transfer
 Power consumption: 2.5 amps @ 5V with 8MB of RAM

Rocket 25i

Rocket 33

Motorola MC68040
 33MHz
 29 MIPS
 4.6MFLOPS
 4KB data; 4KB instruction
 2 banks with 4 SIMM slots each
 One Processor Direct Slot
 Up to 20MB/sec with block transfer
 3.0 amps @ 5V with 8MB of RAM

Memory subsystem

Capacity:	8MB to 128MB of RAM	8MB to 128MB of RAM
Supported sizes:	1MB x 8, 4MB x 8, or 16MB x 8	1MB x 8, 4MB x 8, or 16MB x 8
Supported speeds:	120ns or faster	100ns or faster
Supported types:	Parity or non-parity	Parity or non-parity
Data transfer rates:		
with interleaving*	50MB/sec reads, 36MB/sec writes	66MB/sec reads, 48MB/sec writes
without interleaving	36MB/sec reads, 36MB/sec writes	48MB/sec reads, 48MB/sec writes

*Rockets automatically interleave memory when all 8 memory slots are filled with SIMMs of the same size and speed.



RocketWare

Software for using Rocket as an accelerator for a Macintosh II (Included with each Rocket card)

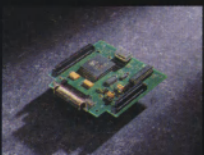
System Requirements:	Rocket memory:	At least 8MB of RAM (sold separately)
	Supported computers:	Macintosh II, IIx, IIcx, IIci, IIfx, IIvx, IIvi, and a hard disk drive with at least 4MB of free disk space (IIfx support available Q1-93)
	Macintosh system software:	System 7.0.1 or later



RocketShare

Software for using Rocket as an independent computer in a Mac II or Quadra (sold separately)

System Requirements:	Rocket memory:	At least 8MB of RAM (sold separately)
	Supported computers:	Macintosh II, IIx, IIcx, IIci, IIfx, IIvx, IIvi, Quadra 700, 800, 900, 950, Centris 650 or DuoDock with at least 4MB of RAM and a hard disk with at least 15MB of free disk space.
	Macintosh system software:	System 7.0 or later for Macintosh II models System 7.0.1 or later for Macintosh Quadra models and Rockets
	Network support:	Ethernet, Phase 2, AppleTalk v. 5.7 compatible



Boosters

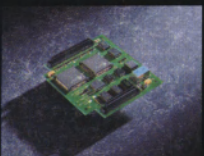
Hardware

Processor: Emulex FAS 216 SCSI-2 chip
 Processor clock speed: 40MHz
 Performance: Max. 5MB/sec data transfer rate
 Product support: Select SCSI-based disk drives, scanners, and printers
 Cable: 3-foot, shielded
 Cable connectors: SCSI-1 to SCSI-2
 Power consumption: 1.0 amp @ 5V

SCSI-2 Booster

DSP Booster

Twin AT&T 3210 DSP chips
 66MHz
 Up to 66MFLOPS floating-point performance
 Application-specific acceleration to be determined
 n/a
 n/a
 1.0 amp @ 5V



System Requirements:

Supported Rocket models:	Rocket, Rocket 25i, Rocket 33	Rocket, Rocket 25i, Rocket 33
Rocket interface:	One Rocket PDS slot	One Rocket PDS slot
RocketWare software:	Version 1.3.2 or later	Version 1.5 or later
RocketShare software:	Version 1.0 or later	Version 1.0 or later

Radius.

Total Systems. Total Service. Total Support.

At Radius, we support every product we make with the best possible service and support.

All of our products come with a full one year warranty. And for what amounts to mere pocket change a day, you can use RadiusCare to extend the warranty coverage on your Radius products for an additional one to two years.

But service is just part of the story. We're here to help you with whatever problems may arise. Through our technical support hotline. Through our worldwide network

of offices, distributors and resellers. Through electronic bulletin board systems including AppleLink, America OnLine, CompuServe and Internet. And of course, through our own Radius BBS.

At Radius, we recognize that it takes a lot more than engineering and hardware to be a total systems manufacturer.

It also takes listeners.

Because it's by listening to our customers that we're able to develop the leading edge technologies our success is based on. Which is why we're always here to listen. And to offer you any help you need. Whether it's a problem, a question or a suggestion, we want to hear from you. All of our phone, fax and address information is listed here.

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